

Safety Data Sheet: VOLTZ II

Supersedes Date 04/25/2013

Issuing Date 09/26/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name VOLTZ II
Recommended use Solvent
Information on Manufacturer
CHEMSEARCH DIV. OF NCH CORP.
BOX 152170
IRVING, TX 75015

Product Code 0945
Chemical nature Solvent mixture
Emergency Telephone Number

Telephone inquiry
972-579-2477

2. HAZARD IDENTIFICATION

Color Colorless

Physical State Liquid

Odor Orange

GHS

Classification

Physical Hazards

None

Health Hazard

Aspiration Toxicity
Skin Corrosion/Irritation
Serious Eye Damage/Eye Irritation
Respiratory Sensitization
Skin Sensitization
Specific target organ systemic toxicity (single exposure)
Specific target organ systemic toxicity (repeated exposure)

Category 1
Category 2
Category 2B
Category 1
Category 1
Category 3
Category 2

Other hazards

None

Labeling

Signal Word

DANGER



Hazard Statements

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H320 - Causes eye irritation
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled
H336 - May cause drowsiness or dizziness
H304 - May be fatal if swallowed and enters airways
H373 - May cause damage to organs through prolonged or repeated exposure

Precautionary Statements

P280 - Wear protective gloves, protective clothing and eye protection.
P272 - Contaminated work clothing should not be allowed out of the workplace
P363 - Wash contaminated clothing before reuse
P260 - Do not breathe mist or vapor
P271 - Use in a well-ventilated area.
P285 - In case of inadequate ventilation wear respiratory protection
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P333 - If skin irritation or rash occurs get medical attention.
P362 - Take off contaminated clothing and wash before reuse
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists, get medical attention.
P304 + P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P342 + P311 - If experiencing respiratory symptoms, call a physician
P301+ P330 + P331 - IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a physician if unwell.
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed
P501 - Dispose of contents and container in accordance with applicable regulations.

5 % of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION / INFORMATION ON INGREDIENTS

| Component | CAS-No | Weight % |
|--------------------|------------|----------|
| 1-Tetradecene | 1120-36-1 | 60-100 |
| D-Limonene | 5989-27-5 | 1-5 |
| 2-Butyl-1-decene | 51655-65-3 | 1-5 |
| 2-Ethyl-1-dodecene | 19780-34-8 | 1-5 |
| 2-Hexyl-1-octene | 19780-80-4 | 1-5 |

4. FIRST AID MEASURES

| | |
|---------------------------|---|
| General advice | Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. |
| Eye Contact | Rinse thoroughly with plenty of water, also under the eyelids. Get medical attention if irritation develops and persists. |
| Skin Contact | Wash off immediately with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops and persists. Wash contaminated clothing before re-use. |
| Inhalation | If inhaled, remove to fresh air. Get medical attention if symptoms occur. |
| Ingestion | Drink 1 or 2 glasses of water. Do NOT induce vomiting. Get medical attention immediately. Never give anything by mouth to an unconscious person. |
| Notes to physician | May cause sensitization of susceptible persons. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. |

5. FIRE-FIGHTING MEASURES

| | | | |
|--|--|-----------------------|----------------------|
| Flash Point | > 201 °F / > 94 °C | Method | Seta closed cup |
| Flammability Limits in Air % Solvent mixture. | | Upper 6.1 | Lower 0.7 |
| Suitable Extinguishing Media | Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. | | |
| Specific hazards arising from the chemical | Material can create slippery conditions. | | |
| Protective Equipment and Precautions for Firefighters | As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. | | |
| NFPA | Health 2 | Flammability 1 | Instability 0 |
| HMIS | Health 2 | Flammability 1 | Instability 0 |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Use personal protective equipment. Prevent further leakage or spillage if safe to do so. Material can create slippery conditions. |
| Environmental Precautions | Do not flush into surface water or sanitary sewer system. |
| Methods for Containment | Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). |
| Methods for Cleaning Up | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) |
| Neutralizing Agent | Not applicable. |

7. HANDLING AND STORAGE

| | | | | |
|----------------------------|---|--------------|----------------|-----------------------------------|
| Handling | Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. | | | |
| Storage | Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place. | | | |
| Storage Temperature | Minimum | 35 °F / 2 °C | Maximum | 120 °F / 49 °C |
| Storage Conditions | Indoor | X | Outdoor | Heated Refrigerated |

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

| | |
|---------------------------------------|---|
| Exposure Guidelines | |
| Engineering Measures | Ensure adequate ventilation, especially in confined areas. |
| Personal Protective Equipment | |
| Eye/Face Protection | Safety glasses with side-shields. |
| Skin Protection | Wear suitable protective clothing, Impervious gloves. |
| Respiratory Protection | In case of insufficient ventilation wear suitable respiratory equipment. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. |
| General Hygiene Considerations | Wear protective gloves/clothing. Ensure that eyewash stations and safety showers are close to the workstation location. Remove and wash contaminated clothing before re-use. |

9. PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|-------------------------------------|---------------------------|----------------------------------|-------------------|
| Physical State | Liquid | Viscosity | Non viscous |
| Color | Colorless | Odor | Orange |
| Odor Threshold | Not applicable | Appearance | Transparent |
| pH | Not applicable | Specific Gravity | 0.776 |
| Evaporation Rate | 0.01 (Butyl acetate=1) | Percent Volatile (Volume) | 100 |
| VOC Content (%) | 100 | VOC Photoreactive (Y/N) | Yes |
| VOC Content (g/L) | 776 | Vapor Pressure | 0.21 mmHg @ 70°F |
| Vapor Density | 4.0 (air = 1) | Solubility | Negligible |
| n-Octanol/Water Partition | No data available | Melting Point/Range | No data available |
| Decomposition Temperature | No data available | Boiling Point/Range | 463 °F / 239 °C |
| Flammability (solid, gas) | No data available | Method | Seta closed cup |
| Flash Point | > 201 °F / > 94 °C | | |
| Autoignition Temperature | No information available. | | |
| Flammability Limits in Air % | Solvent mixture. | Upper 6.1 Lower 0.7 | |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Chemical Stability | Stable. Hazardous polymerization does not occur. |
| Conditions to Avoid | None known |
| Incompatible Products | Strong oxidizing agents, Acids. |
| Hazardous Decomposition Products | Carbon oxides |
| Possibility of Hazardous Reactions | None under normal processing |

11. TOXICOLOGICAL INFORMATION

Product Information No information available.

The following values are calculated based on chapter 3.1 of the GHS document (Rev. 3, 2009):

| | |
|------------------------|--------------------------|
| Oral LD50 | No information available |
| Dermal LD50 | No information available |
| Inhalation LC50 | |
| Gas | No information available |
| Mist | No information available |
| Vapor | No information available |

Principle Route of Exposure Skin contact, Eye contact.
Primary Routes of Entry Inhalation, Skin Absorption.

Acute Effects

| | |
|-------------------|---|
| Eyes | Causes eye irritation. |
| Skin | Causes skin irritation. May cause allergic skin reaction. |
| Inhalation | May cause irritation of respiratory tract. May cause central nervous system depression. Inhalation may cause central nervous system effects. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness. May cause allergic respiratory reaction. |
| Ingestion | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard if swallowed - can enter lungs and cause damage. May be fatal if swallowed and enters airways. |

Chronic Toxicity

May cause sensitization by skin contact. May cause sensitization by inhalation. Liver and kidney injuries may occur.

Target Organ Effects

Liver, Kidney, Central nervous system, Immune system, Lungs.

Aggravated Medical Conditions

Liver disorders, Kidney disorders, Neurological disorders, Respiratory system, Skin disorders.

Component Information

Acute Toxicity

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation | Draize Test | Other |
|---------------|--|---|-------------------|-------------------|-------------------|
| 1-Tetradecene | = 21300 mg/kg (Rat) > 10000 mg/kg (Rat) | = 10000 mg/kg (Rabbit) > 10000 mg/kg (Rabbit) > 2430 mg/kg (Rabbit) | no data available | no data available | no data available |
| D-Limonene | = 4400 mg/kg (Rat) | > 5 g/kg (Rabbit) | no data available | no data available | no data available |

| Component | Mutagenicity | Sensitization | Developmental Toxicity | Reproductive Toxicity | Target Organ Effects |
|------------|-------------------|--|------------------------|-----------------------|--|
| D-Limonene | no data available | Skin sensitization, Respiratory sensitization | no data available | no data available | CNS, immune system, lungs, liver, kidneys |

Carcinogenicity

There are no known carcinogenic chemicals in this product.

12. ECOLOGICAL INFORMATION

Product Information No information available.

Component Information

| Component | Toxicity to Algae | Toxicity to Fish | Microtox | Water Flea | log Pow |
|---------------|--|--|-----------------------|--|---------|
| 1-Tetradecene | EC50 22 - 24 mg/L Pseudokirchneriella subcapitata 96 h | LC50 1 - 3.2 mg/L Brachydanio rerio 96 h LC50 10.0 - 32.0 mg/L Poecilia reticulata 96 h LC50 = 0.39 mg/L Oncorhynchus mykiss 96 h LC50 = 1.06 mg/L Pimephales promelas 96 h | EC50 > 10000 mg/L 6 h | LC50 0.68 mg/L Daphnia magna 96 h EC50 0.74 mg/L Daphnia magna 48 h | N/A |
| D-Limonene | no data available | LC50 0.619 - 0.796 mg/L Pimephales promelas 96 h LC50 = 35 mg/L Oncorhynchus mykiss 96 h | no data available | no data available | N/A |

Persistence and Degradability

No information available.

Bioaccumulation

No information available.

Mobility

No information available.

13. DISPOSAL CONSIDERATIONS

Product Disposal

Dispose of in accordance with local regulations.

Container Disposal

Empty containers should be taken for local recycling, recovery, or waste disposal.

14. TRANSPORT INFORMATION

DOT Not regulated

TDG Not regulated

ICAO Not regulated

IATA Not regulated

IMDG/IMO Not regulated

15. REGULATORY INFORMATION

Inventories

TSCA

Complies

DSL

Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

| Acute Health Hazard | Chronic Health Hazard | Fire Hazard | Sudden Release of Pressure Hazard | Reactive Hazard |
|---------------------|-----------------------|-------------|--------------------------------------|-----------------|
| Yes | Yes | No | No | No |

CERCLA

16. OTHER INFORMATION

Prepared By

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Reason for Revision

No information available.

Glossary

No information available.

List of References.

No information available.

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